

AKÖMA™

FROM THE HEART

VITAMIN C (ASCORBIC ACID)

DESCRIPTION

Product: Vitamin C (Ascorbic Acid)

Chemical formula: C₆H₈O₆

CHARACTERISTICS

TEST	SPECIFICATION	RESULT
APPEARANCE	White crystalline powder	Conforms
Assay	99 - 100.5 %	99.75%
Colour	Clear = < BY7	Conforms
Identification	Positive reaction	Conforms
pH (2% solution)	2.4 - 2.8	2.46
Heavy metals	Max 10 ppm	Max 5ppm
Cadmium	Max 1 ppm	Conforms
Sulphated ash	Max 0.1 %	Conforms
Arsenic	Max 1 ppm	Conforms
Loss on drying	Max 0.4 %	<0.4%
Melting point	About 190°C	190.6°C
Residual solvents	Pass	Conforms
Lead	Max 2 ppm	Conforms
Iron Content	Max 2 ppm	Conforms
Oxalic Acid	Max 0.2 %	Conforms
Specific Optical Rotation	+20.5° + 21.5°	+21.16°
Mercury	Max 0.1 ppm	Conforms
Copper	Max 5 ppm	Conforms
Total plate count	Max 100 cfu/g	Conforms
Total yeasts and moulds	Max 100 cfu/g	Conforms
Staphylococcus aureus	Negative	Conforms
Pseudomonas aeruginosa	Negative	Conforms
Salmonella	Negative	Conforms
Escherichia Coli	Negative	Conforms
pH (5% solution)	2.1 - 2.6	2.36
Impurity C	Max 0.15 %	Max 0.15 %
Impurity D	Max 0.15 %	Max 0.15 %
Unspecified Impurity	Max 0.1 %	Max 0.1 %
Total Impurities	Max 0.2 %	Max 0.2 %

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Vitamin C (Ascorbic Acid - COA

Impurity E	Max 0.2 %	<0.2%
Zinc	Max 0.25 ppm	Max 0.25 ppm

Revised: 2021

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